

ABSTRACT OF THE DISCLOSURE

An optical disc device serving as an information memory and reproduction device includes: an A/D converter for performing sampling to an analog signal to convert the analog signal into a first digital signal, which has been offset-adjusted, using an n times
5 higher frequency than that of a channel clock (where n is 2 or a larger integer than 2); and
a digital equalizer for digitally performing wave-form equalization of a reproduction signal, which has been converted into the first digital signal, and outputting a second digital signal. In this manner, wave-form equalization is performed to the digital signal which has been A/D converted, so that a small circuit configuration can be obtained.
10 Moreover, oversampling is performed, thus equivalently improving a resolution when A/D conversion is performed.